					DEPARTMEN	IT OF NA	<b>DF UTAH</b> ATURAL RESO GAS AND M		8			AMENDED RE	FORM 3 PORT		
		APPL	ICATION FOR F	PERMI	T TO DRILL					1. WELL I	NAME and NU	MBER Ite Tribal 21-0	2B		
2. TYPE OF V		LL NEW WELL (iii	DEENTED DO			N WELL [	<u> </u>			3. FIELD OR WILDCAT					
4. TYPE OF W			REENTER P&A	,		N WELL				ANTELOPE CREEK  5. UNIT or COMMUNITIZATION AGREEMENT NAME					
6. NAME OF	OPERATOR	Oil W	'ell Coalbe	d Metha	ane Well: NO					7. OPERA	TOR PHONE	NTELOPE CREE	EK .		
PETROGLYPH OPERATING CO  8. ADDRESS OF OPERATOR											ATOR E-MAIL	208 685-768	5		
	LEASE NUMBER	960 Broa	adway Avenue, Ste		Boise, ID, 8370							owell@pgei.co	om		
	NDIAN, OR STATE	623516		FEDE		IDIAN [	) STATE	) FEE	E 🔘	FEDER/	- T	400	АТЕ 🔵	FEE 🔵	
13. NAME OF	SURFACE OWNE	R (if box 12 = 'fe	ee')							14. SURF	ACE OWNER	PHONE (if box	12 = 'fee'	)	
15. ADDRESS	S OF SURFACE O	WNER (if box 12	= 'fee')							16. SURF	ACE OWNER	E-MAIL (if bo	x 12 = 'fee'	')	
17. INDIAN A (if box 12 =	,	BE NAME			END TO COMPLE FORMATION	ONS	PRODUCTION		_	19. SLAN		ECTIONAL 📵	HORIZO	NTAL (	
20. LOCATIO	ON OF WELL		FO	OTAGES	s	Q	TR-QTR	SE	CTION	то	WNSHIP	RANGE		MERIDIAN	
LOCATION	AT SURFACE		581 FNL	. 3248	FWL		NWNE		21	5	5.0 S	3.0 W		U	
Top of Uppe	ermost Producing	j Zone	915 FNL	3875	FWL		NWNE		21	5	5.0 S	3.0 W		U	
At Total De	pth		915 FNL	. 3875	FWL		NWNE		21	5	5.0 S	3.0 W		U	
21. COUNTY		HESNE		22. DIS	TANCE TO NE		EASE LINE (F	eet)		23. NUME	BER OF ACRE	533	UNIT		
					TANCE TO NE	or Com		POOL		26. PROP	OSED DEPTH MD:	6348 TVD:	6272		
27. ELEVATION	ON - GROUND LE	VEL		28. BO	ND NUMBER						CE OF DRILL	NG WATER / VAL NUMBER	IE ABBLIC	ADIE	
	62	263				LPM4	138336			WAIERR	IIGHTS AFFRO	43-8342	IF AFFLIC		
			1		Hole, Casin						_				
String	Hole Size	Casing Siz			Weight		le & Thread			Max Mud Wt.         Cement         Sacks         Yield         Weigh           10.0         Class G         25         1.17         15.8					
SURF	12.25	14 8.625	0 - 54	_	5.0		Jnknown -55 ST&C		10.0		Class G	25	1.17	15.8	
PROD	7.875	5.5	0 - 634	_	15.5		-55 LT&C		10.0		Class G	484	1.92	12.5	
				_							Class G	344	1.46	13.4	
			<u></u>		,	ATTACI	HMENTS					<u>'</u>			
	VERIFY 1	THE FOLLOWII	NG ARE ATTAC	HED IN	N ACCORDA	NCE WI	ITH THE UT	AH OIL /	AND GAS	CONSE	RVATION GE	NERAL RUL	.ES		
<b>₩</b> WELL	L PLAT OR MAP PR	REPARED BY LICI	ENSED SURVEYOR	R OR EN	IGINEER		сом	IPLETE D	RILLING PL	.AN					
AFFID	OAVIT OF STATUS	FORM	/ 5. IF OP	PERATOR IS	OTHER 1	THAN THE LEA	ASE OWNER								
DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)  TOPOGRAPHICAL MAP															
NAME Ed Tr	rotter				TITLE Agent				PHONE	435 789	)-4120				
SIGNATURE	:			$\neg$	<b>DATE</b> 05/30	/2013			EMAIL	edtrotter@	@easilink.com				
API NUMBER ASSIGNED APPROVAL APPROVAL															
									Permit Manager						

# NINE POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 21-02B NW NE, SEC 21, T5S, R3W DUCHESNE COUNTY, UTAH

#### 1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Formation		Subsea	TVD	MD
Rig KB=~14.4' above GGL		6277	0	0
Surface Formation = <b>Uinta</b>				
Uinta		6263	14	14
Green River		4815	1462	1467
Trona		3463	2814	2859
Mahogany Shale		3324	2953	3003
"B" Marker	_ =	2230	4047	4121
"X" Marker	00 2	1752	4525	4601
Douglas Creek Marker	interior	1605	4672	4748
"B" Limestone	Waterflood Unit Interval	1228	5049	5125
Base Castle Peak Limestone	> 5	660	5617	5693
BSCARB		251	6026	6102
Wasatch		-21	NDE	NDE
Rig TD		5	6272	6348

# 2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:

Substance	Formation	Subsea	TVD	MD
Base of moderately saline ground	Uinta	5900	377	377
water*				
Oil/Gas	Douglas Creek	1605	4672	4748
Oil/Gas	Castle Peak	660	5617	5693

Any water encountered during drilling shall be sampled, analyzed and reported to BLM, Vernal office using State of Utah DOGM Form 7 Report of Water Encountered during Drilling. The following analyses shall be performed on any water encountered:

Flow rate (or blowtest) Temperature pH TDS

Dissolved Iron Dissolved Magnesium Dissolved Bicarb. Dissolved Sulfate
Dissolved Calcium Dissolved Sodium Dissolved Carbonate Dissolved Chloride

All depths through the "Base of moderately saline ground water", along with any water encountered below that depth which is less than 10,000 TDS, shall be protected by the surface casing or by lifting the cement of the production casing into the surface casing.

<sup>\*</sup>Base of Moderately Saline Groundwater from Howells, Longson and Hunt, 1981, Utah State Technical Publication 92: The Base of the Moderately Saline Water in the Uinta Basin, Utah



# NINE POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 21-02B NW NE, SEC 21, T5S, R3W DUCHESNE COUNTY, UTAH

#### 3. PROPOSED CASING PROGRAM:

String	Hole	Casing	Top - MD	Bottom - MD	Weight lb/ft	Grade	Thread
Conductor	20"	14"	surface	54'	steel	Cond'r	none
Surface	12-1/4"	8-5/8"	surface	494'	24	J-55	STC
Production	7-7/8"	5-1/2"	surface	6348'	15.5	J-55	LTC

String	Hole	Casing	Collapse	Burst	Tensile
Surface	12-1/4"	8-5/8"	1,370 psi	2,950 psi	244,000 lb
Production	7-7/8"	5-1/2"	4,040 psi	4,810 psi	248,000 lb

- All casing will be new or inspected.
- The surface and production strings shall have a minimum of one (1) centralizer on each of the bottom three (3) joints.
- The production string shall have a minimum of one (1) centralizer for every three (3) joints from TD to the top of the "B" marker at 4121'MD.

#### 4. PROPOSED CEMENTING PROGRAM:

String	Top Bottom	Cement Description	Sacks Vol (ft³)	Excess	Weight (ppg)	Yield (ft³/sk)
Conductor	0 54	Construction Grade Cement	Sufficier	nt volumes	to grout Co	onductor
Surface	0 494	Class G +2% CaCl2 +0.25 lb/sk Cello Flake	227 265	30%	15.8	1.17
Production Lead	0 4121	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	484 928	30%	12.5	1.92
Production Tail	4121 6348	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	344 502	30%	13.4	1.46

- The 8-5/8" surface casing shall be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.
- The 5-1/2" production casing shall be cemented back to surface. In the event that during the primary cementing operation the cement does not circulate to surface, a remedial cementing operation shall be performed only if necessary to lift cement above the Trona at 2859'MD.



NINE POINT DRILLING PLAN
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#### 5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:

- An 8", 2000 PSI, Double Ram BOPE with Hydraulic Closing Unit shall be used.
- The flowline shall have a minimum diameter of 10".
- Auxiliary equipment shall be a Kelly Cock, Bit Float, and a TIW valve with drill pipe threads.
- Spark arrestors shall be equipped on all engine exhausts within 100 feet of the wellbore.
- See attached 2,000 psi BOP schematic diagram.

#### **BOPE TESTING PROCEDURE:**

• The BOPE shall be tested by a professional tester to conform to Onshore Order #2.

#### 6. MUD PROGRAM:

#### A. SURFACE HOLE

- The surface hole will be drilled with an air/mist system from 0' to 494'. All cutting shall be directed to pit.
- A trailer-mounted compressor with a capacity of 2000 CFM will be used. Compressor will have a safety shut-off valve located less than 15 feet from the driller's controls of the rig.
- The rat and mouse holes will be drilled with the air rig after surface casing is cemented.
- The 140 barrel water truck used with the deduster will be the source of kill fluid in the highly unlikely event of pressure being encountered during drilling of the surface hole.
- Operator requests the following variances from Onshore Order 2 part E during drilling of the surface hole. Operator will use air drilling techniques only on surface hole:
  - Operator requests a variance to regulations requiring the blooie line discharge to be 100' from the wellbore. Due to reduced location size, the blooie line discharge will be approximately 75' from the wellbore and securely anchored.
  - Operator requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. A mister shall be on the end of the blooie line.
  - Operator requests a variance to regulations requiring compressors be located in the opposite direction from the blooie line; a minimum of 100' from the wellbore. Due to the reduced location size, the compressors shall be located as close as is reasonable to the opposite direction from the blooie line and 75' from the wellbore.
  - Operator requests a variance to regulations requiring a BOPE on the hole when drilling the surface hole. An air bowl shall be utilized on the diverter system in place of a BOPE.



# NINE POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 21-02B NW NE, SEC 21, T5S, R3W DUCHESNE COUNTY, UTAH

#### B. PRODUCTION HOLE

- The production hole shall be drilled with a freshwater polymer system from 494' to 6348'. LSND mud if conditions warrant.
- Clay inhibition and hole stability shall be achieved with a Diammonium Phosphate (DAP) additive or similar source of clay-stabilizing ions. Anticipated mud weight is 8.3-8.8 lbs/gal. although mud weight up to 10lbs/gal may be used if necessary to prevent wellbore wall instability due to the planned inclination of the well.
- All cuttings and circulating medium shall be directed into the reserve pit. Total Dissolved Solids (TDS) are anticipated to be less than 3000 PPM.
- Sufficient mud inventory will be maintained on location in either tanks or the reserve pit during the drilling of the production hole to handle any adverse conditions that may arise.
- If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. Enough material shall be maintained on location to allow for the mudweight to be raised to 10.5 lbs/gal should need arise.
- During drilling operations, pit levels and flow from the well shall be monitored by instrumentation to include at least: a pit volume totalizer (PVT), a stroke counter, and a mud-flow indicator.
- A mud-gas separator shall be available on location. Operator does not plan on using a gas detector on the mud return due to the fact that any abnormal pressure is the result of offset water injection.

#### C. HAZARDOUS MATERIALS AND POLLUTANTS

- Chromate additives **shall NOT** be used in the mud system on Indian lands without prior DOGM approval to ensure adequate protection of freshwater aquifers.
- Chemicals subject to reporting under SARA Title III in an amounts equal to or greater than 10,000 pounds annually **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities shall NOT be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Hazardous substances specifically listed by the EPA as a hazardous waste, as defined in 40 CFR 261 (D), or any substances that through their use would lead to the generation of a hazardous waste, **shall NOT** be used in association with the drilling, testing, or completion of this well.



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# NINE POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 21-02B NW NE, SEC 21, T5S, R3W DUCHESNE COUNTY, UTAH

#### 7. EVALUATION PROGRAM:

Logs: Triple Combo TD to base of surface casing (AIT, DSN, CDL)

Base of surface casing to surface (GR only)

Cores: None planned

DST: None planned

Testing: Operator plans no testing until the completion phase of the well.

## 8. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURÉ:

- Operator anticipates Bottom Hole Temperatures below 150°F, the maximum temperature for DAP drilling fluids.
- No H<sub>2</sub>S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 1587 PSI (0.25 PSI/ft gradient).
- This well is in the vicinity of active injection wells. Nearby active injection can cause pressures up to a 0.433 PSI/ft gradient (2749 PSI).

## 9. <u>DIRECTIONAL WELL PLAN:</u>

- Well shall be drilled directionally in order to limit surface disturbance.
- A Positive Displacement Motor with a bent sub of 1.25° to 1.75° will be used to control well path.
- A directional survey shall be taken at least one (1) time per 100' of drilling.
- Anti-collision equipment will not be used as there are no existing wells in the vicinity of the proposed well path.
- While cutting the Waterflood Unit Interval from 4121' to 6102', the actual well path may be allowed to vary up to 100' horizontally from plan in order to prevent excessive slide drilling.

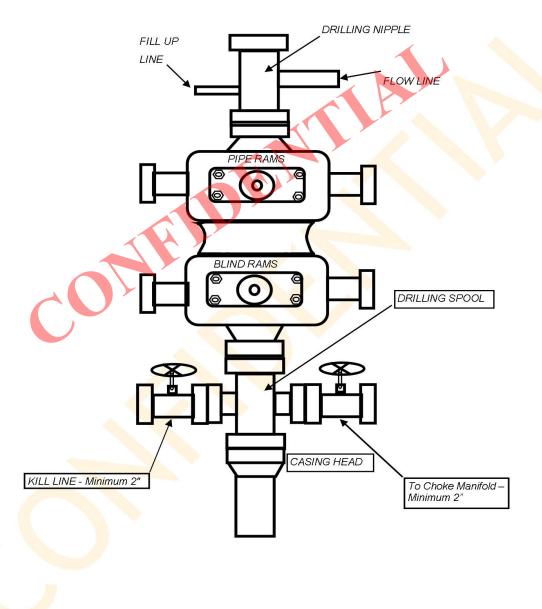
  Above and below the Waterflood Unit Interval, variances in excess 100' horizontally from plan may be allowed.
- Directional drilling plan is attached.



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## TYPICAL 2,000 p.s.i. BLOWOUT PREVENTER

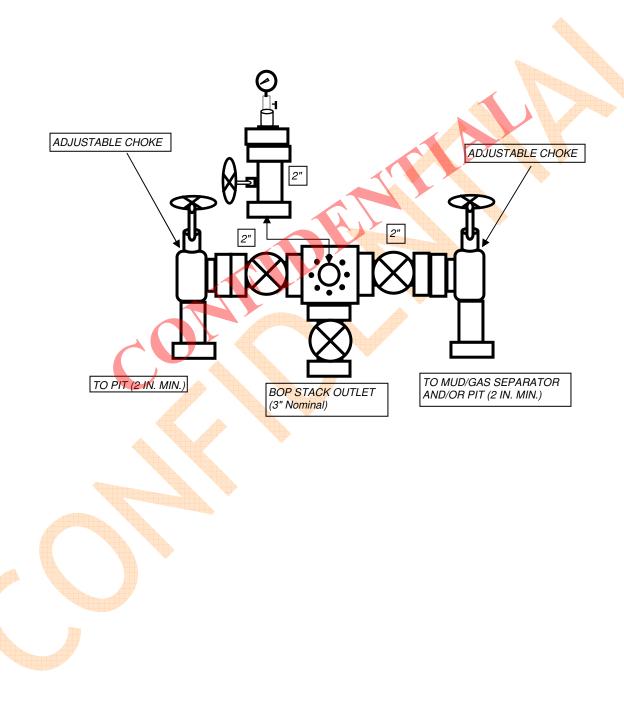


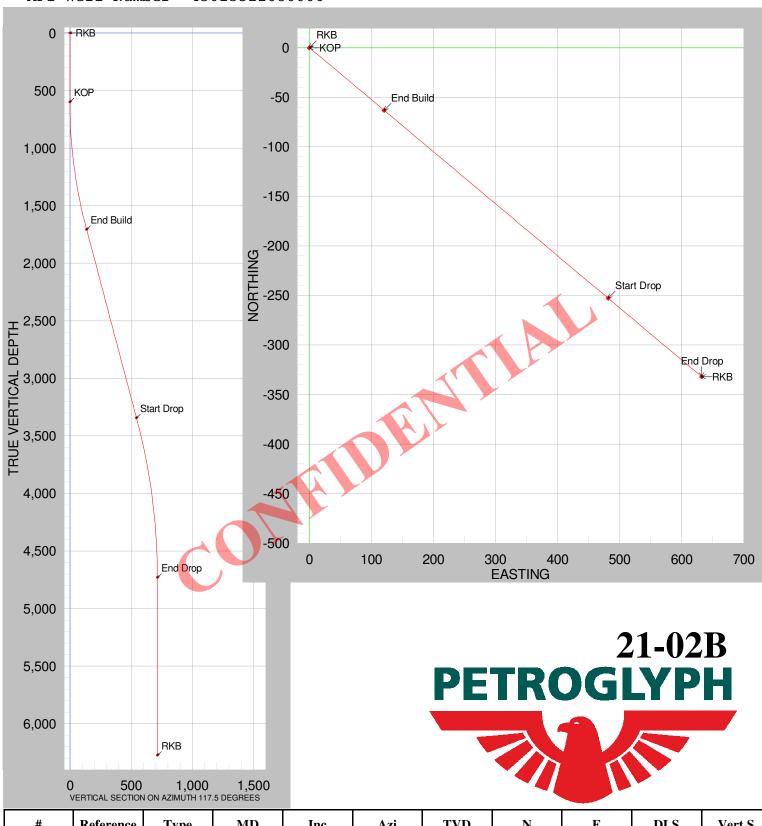


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NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 21-02B
NW NE, SEC 21, T5S, R3W
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# TYPICAL 2,000 p.s.i. CHOKE MANIFOLD





#	Reference	Type	MD	Inc	Azi	TVD	N	E	DLS	Vert S
0	RKB	Tie Point	0.00	0.00	0.00	0.00	0.00	0.00		0.00
1	КОР	Vertical	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
2	End Build	Build	1720.00	14.00	117.50	1708.89	-62.87	120.77	1.25	136.15
3	Start Drop	Tangent	3406.00	14.00	117.50	3344.81	-251.21	482.56	0.00	544.03
4	End Drop	Drop	4806.00	0.00	0.00	4730.92	-329.79	633.53	1.00	714.23
5	RKB	Vertical	6348.00	0.00	0.00	6272.92	-329.79	633.53	0.00	714.23

RECEIVED: May 31, 2013

SES - Stoner Engineering Software

21-02B, Plan 1										
Operator Field Well Name Plan				Units	feet, %100ft Duchesne UT		Vei	11:16 Thursday, May rtical Section Azimuth ey Calculation Method Database	117.5 Minimum Curvat	
Location Site	е	581' FNL 32	248' FWL BHL	.: 915' FNL	3875' FWL	MapZor Surface	X	Lat Long Surface I	Long	
Slot Nam			UWI			Surface		Surfac	e Lat	
Well Numbe Project			API			Z Datu Surface		Ground I	evel	
DIRECTIONA		PLAN								
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* Sys	sTVD*
ft	deg	deg	ft	ft	_ ft	%100ft	ft	ft	ft	ft
*** RKB (at										
0.00	0.00	0.0	0.00	0.00	0.00		0.00			
50.00	0.00	0.0	50.00	0.00	0.00	0.00	0.00			
100.00	0.00	0.0	100.00	0.00	0.00	0.00	0.00			
150.00	0.00	0.0	150.00	0.00	0.00	0.00	0.00	7		
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00			
250.00	0.00	0.0	250.00	0.00	0.00	0.00	0.00			
300.00	0.00	0.0	300.00	0.00	0.00	0.00	0.00			
350.00	0.00	0.0	350.00	0.00	0.00	0.00	0.00			
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00			
450.00	0.00	0.0	450.00	0.00	0.00	0.00	0.00			
				7						
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00			
550.00	0.00	0.0	550.00	0.00	0.00	0.00	0.00			
*** KOP (at		-	000.00	0.00	0.00	0.00	0.00			
600.00	0.00	0.0	600.00 650.00	0.00	0.00	0.00	0.00			
650.00 700.00	0.63 1.25	11 <b>7.5</b> 117.5	699.99	-0.13 -0.50	0.24 0.97	1.25 1.25	0.27 1.09			
700.00	1.25	117.5	055.55	-0.50	0.97	1.25	1.09			
750.00	1.88	117.5	749.97	-1.13	2.18	1.25	2.45			
800.00	2.50	117.5	799.94	-2.01	3.87	1.25	4.36			
850.00	3.13	117.5	849.88	-3.15	6.05	1.25	6.82			
900.00	3.75	117.5	899.79	-4.53	8.71	1.25	9.81			
950.00	4.38	117.5	949.66	-6.17	11.85	1.25	13.36			
1000.00	5.00	117.5	999.49	-8.05	15.47	1.25	17.44			
1050.00	5.63	117.5	1049.28	-0.05	19.58	1.25	22.07			
1100.00	6.25	117.5	1049.28	-10.19	24.17	1.25	27.24			
1150.00	6.88	117.5	1148.68	-15.22	29.23	1.25	32.96			
1200.00	7.50	117.5	1198.29	-18.11	34.78	1.25	39.21			
1250.00	8.13	117.5	1247.82	-21.25	40.81	1.25	46.01			
1300.00	8.75	117.5	1297.28	-24.63	47.32	1.25	53.35			
1350.00	9.38	117.5	1346.66	-28.27	54.31	1.25	61.22			
1400.00	10.00	117.5	1395.94	-32.15	61.77	1.25	69.64			
1450.00	10.63	117.5	1445.14	-36.29	69.71	1.25	78.59			
1500.00	11.25	117.5	1494.23	-40.67	78.12	1.25	88.07			
1550.00	11.88	117.5	1543.21	-45.30	87.01	1.25	98.10			
1600.00	12.50	117.5	1592.09	-50.17	96.37	1.25	108.65			
	13.13	117.5	1640.84	-55.29	106.21	1.25	119.74			

SES - Stoner Engineering Software

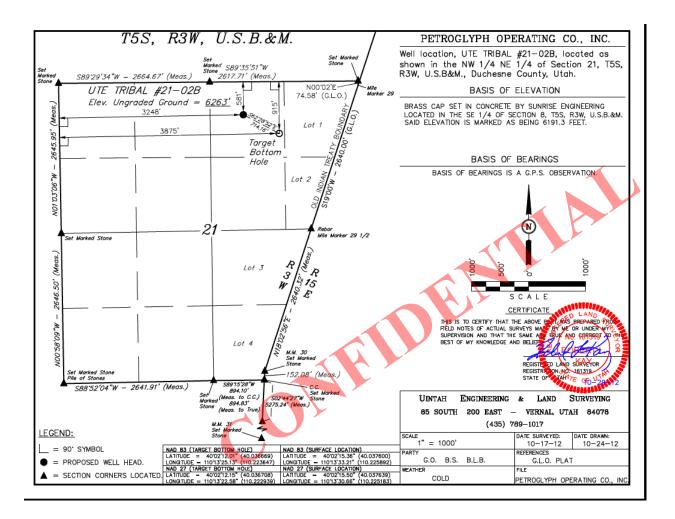
				2	21-02B,	Plan 1				
Operator Field Well Name Plan	-						Vert	1:16 Thursday, May ical Section Azimuth Calculation Method Database	117.5 Minimum Curvati	
Sit Slot Nam	te ie	581' FNL 32	UWI	_: 915' FNL	3875' FWL	MapZone Surface)	( (	Lat Long Surface L Surface	.ong	
Well Numbe Projec			API			Z Datun Surface Z		Ground L	evel	
DIRECTIONA	L WELL F	PLAN								
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* Sys	TVD*
ft	deg	deg	ft	ft	ft	%100ft	ft	ft	ft	ft
1700.00	13.75	117.5	1689.47	-60.65	116.52	1.25	131.36			
*** END BUI	LD (at M	1D = 1720	.00)							
1720.00	14.00	117.5	1708.89	-62.87	120.77	1.25	136.15			
1750.00	14.00	117.5	1738.00	-66.22	127.21	0.00	143.41			
1800.00	14.00	117.5	1786.51	-71.81	137.94	0.00	155.51			
1850.00	14.00	117.5	1835.03	-77.39	148.67	0.00	167.60			
1900.00	14.00	117.5	1883.54	-82.98	159.40	0.00	179.70			
1950.00	14.00	117.5	1932.06	-88.56	170.13	0.00	191.80			
2000.00	14.00	117.5	1980.57	-94.15	180.85	0.00	203.89			
2050.00	14.00	117.5	2029.09	-99.73	191.58	0.00	215.99			
2100.00	14.00	117.5	2077.60	-105.32		0.00	228.08			
2150.00	14.00	117.5	2126.12	-110.90	213.04	0.00	240.18			
2200.00	14.00	117.5	2174.63	-116.49	223.77	0.00	252.28			
2250.00	14.00	117.5	2223.15	-110.49	234.50	0.00	264.37			
2300.00	14.00	117.5	2271.66	-127.66	245.23	0.00	276.47			
2350.00	14.00	117.5	2320.17	-133.24	255.96	0.00	288.57			
2400.00	14.00	117.5	2368.69	-138.83	266.69	0.00	300.66			
2450.00	14.00	117.5	2417.20	-144.42	277.42	0.00	312.76			
2500.00	14.00	117.5	2465.72	-150.00	288.15	0.00	324.85			
2550.00	14.00	117.5	2514.23	-155.59	298.88	0.00	336.95			
2600.00	14.00	117.5	2562.75	-161.17	309.61	0.00	349.05			
2650.00	14.00	117.5	2611.26	-166.76	320.34	0.00	361.14			
2700.00	14.00	117.5	2659.78	-172.34	331.07	0.00	373.24			
2750.00	14.00	117.5	2708.29	-177.93	341.80	0.00	385.33			
2800.00	14.00	117.5	2756.81	-183.51	352.52	0.00	397.43			
2850.00	14.00	117.5	2805.32	-189.10	363.25	0.00	409.53			
2900.00	14.00	117.5	2853.84	-194.68	373.98	0.00	421.62			
2950.00	14.00	117.5	2902.35	-200.27	384.71	0.00	433.72			
3000.00	14.00	117.5	2950.87	-205.85	395.44	0.00	445.81			
3050.00	14.00	117.5	2999.38	-211.44	406.17	0.00	457.91			
3100.00	14.00	117.5	3047.90	-217.02	416.90	0.00	470.01			
3150.00	14.00	117.5	3096.41	-222.61	427.63	0.00	482.10			
3200.00	14.00	117.5	3144.93	-228.20	438.36	0.00	494.20			
3250.00	14.00	117.5	3193.44	-226.20 -233.78	449.09	0.00	506.29			
3300.00	14.00	117.5	3241.96	-239.37	459.82	0.00	518.39			
5500.00	17.00		0 <u>-</u> 41.00	200.07	+00.02	0.00	010.00			

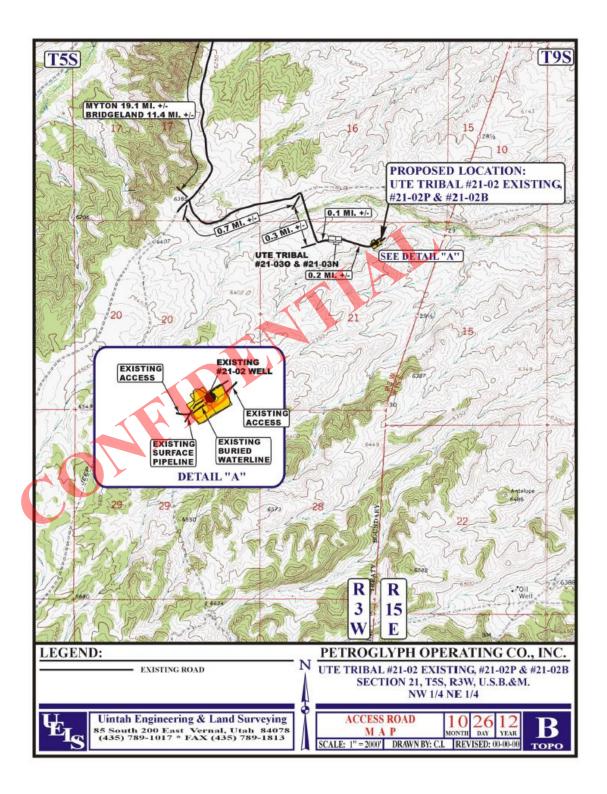
SES - Stoner Engineering Software

21-02B, Plan 1										
Operator Field Well Name Plan				Units	feet, %100ft Duchesne UT		Verti	:16 Thursday, May cal Section Azimuth Calculation Method Database	117.5 Minimum Curvatu	
		581' FNL 32	248' FWL BHI	_: 915' FNL	3875' FWL	MapZon		Lat Long		
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Projec			API			Surface		Ground L	evel	
DIRECTIONA		PLAN						G. Galla 2		
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* Sys	TVD*
ft	deg	deg	ft	ft	ft	%100ft	ft	ft	ft	ft
3350.00	14.00	117.5	3290.47	-244.95	470.55	0.00	530.49		"	
3400.00	14.00	117.5	3338.99	-244.95 -250.54	481.28	0.00	530.49 542.58			
∪ <del>,</del> 00.00	14.00	117.5	5556.33	-200.04	+01.20	0.00	J72.J0			
*** START D	ROP (at	MD = 340	6.00)							
3406.00	14.00	117.5	3344.81	-251.21	482.56	0.00	544.03			
3450.00	13.56	117.5	3387.54	-256.05	491.86	1.00	554.52			
3500.00	13.06	117.5	3436.20	-261.36	502.07	1.00	566.03			
3550.00	12.56	117.5	3484.95	-266.48	511.90	1.00	577.11			
3600.00	12.06	117.5	3533.80	-271.40	521.36	1.00	587.77			
3650.00	11.56	117.5	3582.74	-276.13	530.44	1.00	598.01			
3700.00	11.06	117.5	3631.77	-280.66	539.14	1.00	607.81			
3750.00	10.56	117.5	3680.89	-284.99	547.45	1.00	617.19			
3800.00	10.06	117.5	3730.08	-289.12	555.39	1.00	626.14			
3850.00	9.56	117.5	3779.35	-293.05	562.95	1.00	634.66			
3900.00	9.06	11 <mark>7</mark> .5	3828.69	-296.79	570.12	1.00	642.75			
3950.00	8.56	117.5	3878.10	-300.32	576.91	1.00	650.40			
4000.00	8.06	117.5	3927.57	-303.66	583.32	1.00	657.63			
4050.00	7.56	117.5	3977.11	-306.80	589.35	1.00	664.42			
4100.00	7.06	117.5	4026.70	-309.73	594.99	1.00	670.79			
4150.00	6.56	117.5	4076.35	-312.47	600.25	1.00	676.71			
4200.00	6.06	117.5	4126.05	-315.01	605.13	1.00	682.21			
4250.00	5.56	117.5	4175.79	-317.35	609.62	1.00	687.27			
4300.00	5.06	117.5	4225.57	-319.48	613.72	1.00	691.90			
4350.00	4.56	117.5	4275.40	-321.42	617.44	1.00	696.09			
4400.00	4.00	4475	4005.00	000 45	000 77	4.00	000.05			
4400.00	4.06	117.5	4325.26	-323.15	620.77	1.00	699.85			
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4650.00	1.56	117.5	4574.94	-328.81	631.64	1.00	712.10			
4700.00	1.06	117.5	4624.92	-329.34	632.66	1.00	713.25			
4750.00	0.56	117.5	4674.92	-329.67	633.28	1.00	713.95			
4800.00	0.06	117.5	4724.92	-329.79	633.52	1.00	714.22			
*** END DRO		D = 4806.								
4806.00	0.00	0.0	4730.92	-329.79	633.53	1.00	714.23			
4850.00	0.00	0.0	4774.92	-329.79	633.53	0.00	714.23			

SES - Stoner Engineering Software

					21-02B,					
Operator Field Well Name Plan							Vert	1:16 Thursday, May tical Section Azimuth y Calculation Method Database	117.5 Minimum Curvat	
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Well Numbe			API			Z Datu				
Projec						Surface	Z	Ground L	.evel	
DIRECTIONA										
MD*	INC*	AZI*	TVD*	N*	E*	_	V. S.*	MapE*	MapN* Sys	
ft	deg	deg	ft	ft	ft	%100ft	ft	ft	ft	
4900.00	0.00	0.0	4824.92	-329.79	633.53	0.00	714.23			
4950.00	0.00	0.0	4874.92	-329.79	633.53	0.00	714.23			
5000.00	0.00	0.0	4924.92	-329.79	633.53	0.00	714.23			
5050.00	0.00	0.0	4974.92	-329.79	633.53	0.00	714.23			
5100.00	0.00	0.0	5024.92	-329.79	633.53	0.00	714.23			
5150.00	0.00	0.0	5074.92	-329.79	633.53	0.00	714.23			
5200.00	0.00	0.0	5124.92	-329.79	633.53	0.00	714.23			
5250.00	0.00	0.0	5174.92	-329.79	633.53	0.00	714.23			
5300.00	0.00	0.0	5224.92	-329.79	633.53	0.00	714.23			
5350.00	0.00	0.0	5274.92	-329.79	633.53	0.00	714.23			
5400.00	0.00	0.0	5324.92	-329.79	633.53	0.00	714.23			
5450.00	0.00	0.0	5374.92	-329.79	633.53	0.00	714.23			
5500.00	0.00	0.0	5424.92	-329.79	633.53	0.00	714.23			
5550.00	0.00	0.0		-329.79	633.53	0.00	714.23			
5600.00	0.00	0.0	5524.92	-329.79	633.53	0.00	714.23			
5650.00	0.00	0.0	5574.92	-329.79	633.53	0.00	714.23			
5700.00	0.00	0.0	5624.92	-329.79	633.53	0.00	714.23			
5750.00	0.00	0.0	5674.92	-329.79	633.53	0.00	714.23			
5800.00	0.00	0.0	5724.92	-329.79	633.53	0.00	714.23			
5850.00	0.00	0.0	5774.92	-329.79	633.53	0.00	714.23			
5900.00	0.00	0.0	5824.92	-329.79	633.53	0.00	714.23			
5950.00	0.00	0.0	5874.92	-329.79	633.53	0.00	714.23			
6000.00	0.00	0.0	5924.92	-329.79	633.53	0.00	714.23 714.23			
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6100.00	0.00	0.0	6024.92	-329.79	633.53	0.00	714.23			
6150.00	0.00	0.0	6074.92	-329.79	633.53	0.00	714.23			
6200.00	0.00	0.0	6124.92	-329.79	633.53	0.00	714.23			
6250.00 6300.00	0.00	0.0	6174.92 6224.92	-329.79 -329.79	633.53 633.53	0.00	714.23 714.23			
		0.0	0224.92	-329.19	033.33	0.00	/ 14.∠3			
** RKB (at		•	6070.00	200.70	600.50	0.00	714.00			
6348.00	0.00	0.0	6272.92	-329.79	633.53	0.00	714.23			





#### PETROGLYPH OPERATING CO., INC. P.O. BOX 607 ROOSEVELT, UTAH 84066

May 30, 2013

Ms. Diana Mason State of Utah Division of Oil, Gas & Mining 1594 West North Temple, Suite 1210 P.O. Box 145801 Salt Lake City, UT 84114-5801

Re: Directional Drilling R649-3-11

Ute Tribal 21-02B: 581' FNL & 3248' FWL (Surface Hole)

915' FNL & 3875' FWL, (Bottom Hole) NW/NE, Sec. 21, T5S, R3W, U.S.B.&M.,

Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Petroglyph Operating Co., Inc.'s Application for Permit to Drill regarding the above referenced well on May 30, 2013, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- The Ute Tribal 21-02B is located within the Antelope Creek Unit Area.
- Petroglyph Operating Co., Inc. is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and drilling directionally from this location, Petroglyph Operating Co., Inc. will be able to utilize the existing road and pipelines in the area.
- Furthermore, Petroglyph Operating Co., Inc. hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Petroglyph Operating Co., Inc. requests the permit be granted pursuant to R649-3-11.

Respectfully Submitted,

Ed Trotter, Agent P.O. Box 1910 Vernal, UT 84078 Phone: (435)789-4120

Fax: (435)789-1420

E-mail: edtrotter@easilink.com

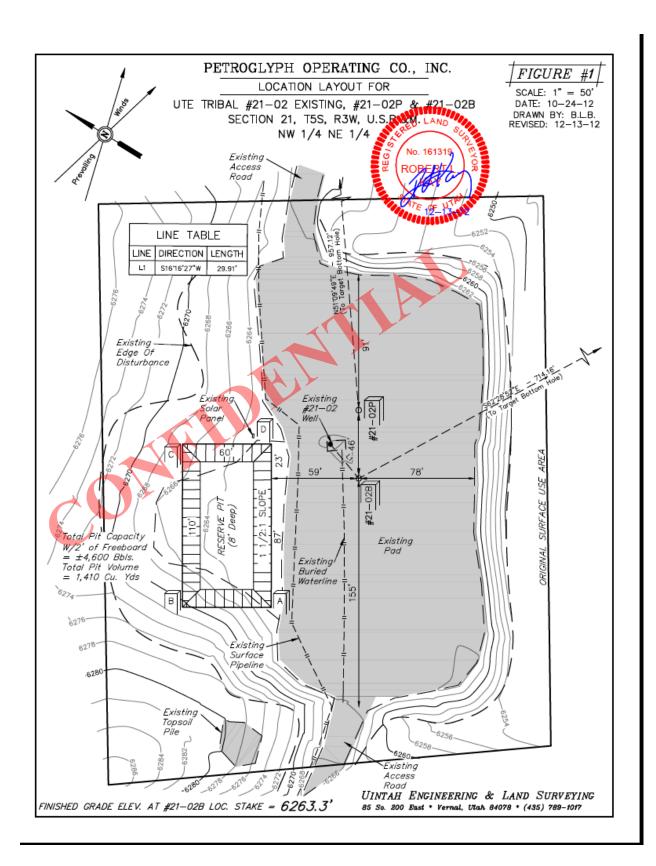
#### Certification

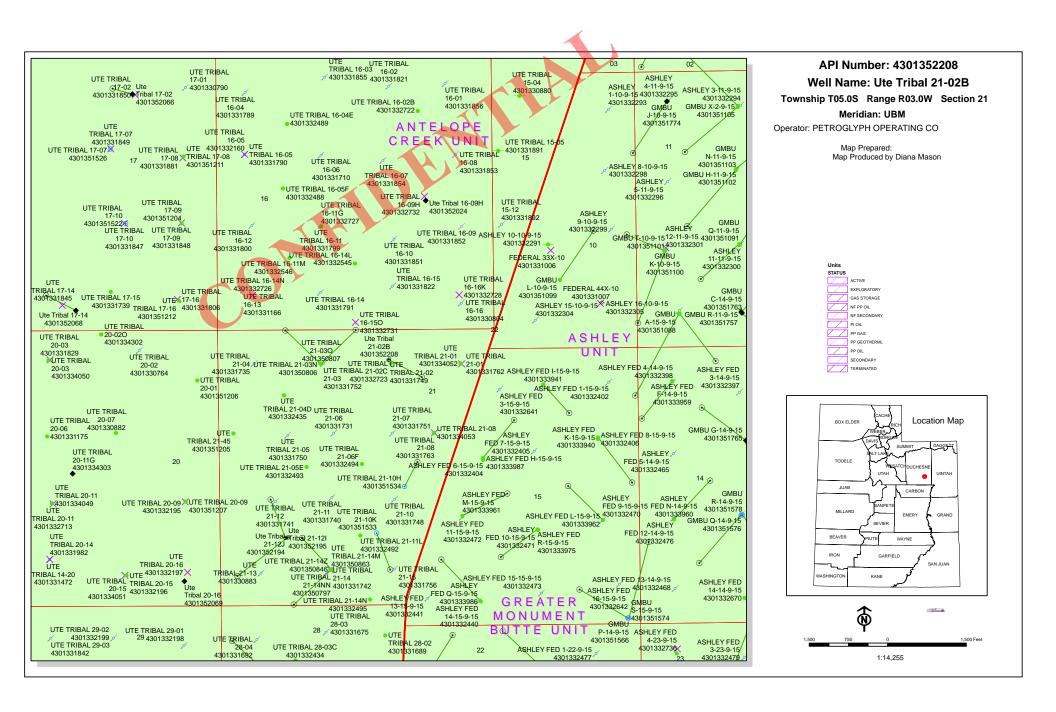
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the UTE TRIBAL 21-02B Well, located in the NW/NE of Section 21, T5S, R3W, Duchesne County, Utah; Lease #14-20-H62-3516; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #LPM4138335.

Date

Ed Trotter, as Agent for Petroglyph Operating Co., Inc.





### **WORKSHEET** APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 5/30/2013 API NO. ASSIGNED: 43013522080000

WELL NAME: Ute Tribal 21-02B

**OPERATOR:** PETROGLYPH OPERATING CO (N3800) PHONE NUMBER: 435 789-4120

**CONTACT:** Ed Trotter

**LATITUDE**: 40.03760

LEASE TYPE: 2 - Indian

PROPOSED LOCATION: NWNE 21 050S 030W Permit Tech Review:

> **SURFACE:** 0581 FNL 3248 FWL **Engineering Review:**

> **BOTTOM: 0915 FNL 3875 FWL** Geology Review:

**COUNTY: DUCHESNE** 

UTM SURF EASTINGS: 566042.00 NORTHINGS: 4432218.00

FIELD NAME: ANTELOPE CREEK

**LOCATION AND SITING:** 

**Drilling Unit** 

**LEASE NUMBER:** 1420H623516 PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 2 - Indian **COALBED METHANE: NO** 

#### **RECEIVED AND/OR REVIEWED:**

✓ PLAT R649-2-3.

Unit: ANTELOPE CREEK Bond: INDIAN - LPM4138336

Potash R649-3-2. General

Oil Shale 190-5

Oil Shale 190-3 R649-3-3. Exception

Board Cause No: Cause 214-2 Water Permit: 43-8342

Effective Date: 6/9/2000

Siting: Suspends General Siting Fee Surface Agreement

Intent to Commingle ✓ R649-3-11. Directional Drill

Presite Completed Comments:

IRR SEC:

**Commingling Approved** 

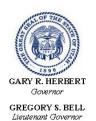
Oil Shale 190-13

**RDCC Review:** 

Stipulations: 4 - Federal Approval - dmason

15 - Directional - dmason

LONGITUDE: -110.22589



# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

## Permit To Drill

\*\*\*\*\*\*

Well Name: Ute Tribal 21-02B API Well Number: 43013522080000

**Lease Number:** 1420H623516

Surface Owner: INDIAN Approval Date: 6/4/2013

#### Issued to:

PETROGLYPH OPERATING CO, 960 Broadway Avenue, Ste 500, Boise, ID 83703

#### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 214-2. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

#### **Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

#### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### **Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

#### **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil &

#### Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
  - Requests to Change Plans (Form 9) due prior to implementation
  - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
  - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas Sundry Number: 47359 API Well Number: 43013522080000

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURG DIVISION OF OIL, GAS, AND MII		5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H623516
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME: ANTELOPE CREEK
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: Ute Tribal 21-02B
2. NAME OF OPERATOR: PETROGLYPH OPERATING O	;o		9. API NUMBER: 43013522080000
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste	500 , Boise, ID, 83703	PHONE NUMBER: 208 685-7685 Ext	9. FIELD and POOL or WILDCAT: ANTELOPE CREEK
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0581 FNL 3248 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 21 Township: 05.0S Range: 03.0W Me	ridian: U	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
1/28/2014	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12. DESCRIBE PROPOSED OR This well was spud Bucket Rig (BR 2) p we set 60' of 16" C	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 03, 2014		
NAME (PLEASE PRINT) Rodrigo Jurado	<b>PHONE NUME</b> 435 722-5302	BER TITLE Regulatory & Compliance S	Эрс
SIGNATURE N/A		<b>DATE</b> 2/3/2014	

Form 3160-3 (August 2007)

# RECEIVED

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT JUN 06 2013

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

Lease Serial No. 1420H623516

APPLICATION FOR PERMIT TO DRILL OR REEN 6. If Indian, Allottee or Tribe Name UINTAH AND OURAY la. Type of Work: **₩** DRILL □ REENTER If Unit or CA Agreement, Name and No. 1420H624650 CONFIDENTIAL 8. Lease Name and Well No. UTE TRIBAL 21-02B 1b. Type of Well: Oil Well ☐ Gas Well ☐ Other Single Zone ■ Multiple Zone Name of Operator Contact: ED H TRO PETROGLYPH OPERATING CO INDIVIDUAL : edtrotter@easilink.com Contact: ED H TROTTER 9. API Well No. 4301350208 3a. Address 10. Field and Pool, or Exploratory Phone No. (include area code) Ph: 435-789-4120 ANTELOPE CREÉK ROOSEVELT, UT 84066 Fx: 435-789-1420 4. Location of Well (Report location clearly and in accordance with any State requirements.\*) 11. Sec., T., R., M., or Blk. and Survey or Area At surface NWNE 581FNL 3248FWL 40.037600 N Lat, 110.225892 W Lon Sec 21 T5S R3W Mer UBM SME: BIA At proposed prod. zone NWNE 915FNL 3875FWL 40.036669 N Lat, 110.223647 W Lon 14. Distance in miles and direction from nearest town or post office\* 12. County or Parish DUCHESNE 13. State 20.4 MILES SOUTHWEST OF MYTON, UTAH ŨΤ 15. Distance from proposed location to nearest property or 16. No. of Acres in Lease RECEIVED 17. Spacing Unit dedicated to this well lease line, ft. (Also to nearest drig. unit line, if any) 581 18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 33 19. Proposed Depth 20. BLM/BIA Bond No. on file DIV. OF OIL, GAS & MINING LPM4138335 6348 MD 6272 TVD 21. Elevations (Show whether DF, KB, RT, GL, etc. 22. Approximate date work will start 23. Estimated duration 66263 GL 08/15/2013 45 DAYS 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

Office

- Well plat certified by a registered surveyor.
- A Drîlling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above)
- Operator certification
- 6. Such other site specific information and/or plans as may be required by the authorized officer.

Name (Printed/Typed) LESTER FARNSWORTH Ph: 435-722-2531	Date 05/31/2013	
Name (Printed/Typed)  Jerry Kenczka	JAN 1 5 2014	
	LESTER FÁRNSWORTH Ph: 435-722-2531	

Lands & Mineral Resources VERNAL FIELD OFFICE Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct CONDITIONS OF APPROVAL ATTACHED Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #209217 verified by the BLM Well Information System For PETROGLYPH OPERATING CO INC, sent to the Vernal NOTICE OF APPROVAL to AFMSS for processing by JOHNETTA MAGEE on 06/10/2013 (13JM1040AE)

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED



#### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

VERNAL FIELD OFFICE VERNAL, UT 84078

(435) 781-4400



# CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No:

API No:

PETROGLYPH OPERATING CO INC

**UTE TRIBAL 21-02B** 

43-013-52208

Location:

NWNE, Sec. 21, T5S, R3W

Lease No: 14-20-H62-3516

Agreement: N

N/A

**OFFICE NUMBER:** 

(435) 781-4400

**OFFICE FAX NUMBER: (435)** 

(435) 781-3420

# A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

### **NOTIFICATION REQUIREMENTS**

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:blm_ut_vn_opreport@blm.gov">blm_gov</a> .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)		Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 6 Well: UTE TRIBAL 21-02B 1/13/2014

## SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### **CONDITIONS OF APPROVAL:**

- Both existing and new infrastructure will be painted Covert Green
- Remove all tanks and production systems until drilling operations are complete.
- Remove all existing flow-lines on the new damage until drilling operations are complete.
- The damage corners will be re-staked before dirt work commences and a Tribal Compliance officer will be present to ensure that the dirt stays within the authorized areas.

# DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### SITE SPECIFIC DOWNHOLE COAs:

- Gamma Ray Log shall be run from Total Depth to Surface.
- CBL will be run from TD to TOC.
- Cement for the surface casing will be circulated to the surface.
- Cement for long-string shall be circulated 200' above surface casing shoe.

#### Variance Granted

Variance for Air-drilling is granted per APD.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the
  daily drilling report. Components shall be operated and tested as required by Onshore Oil &
  Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be
  performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be
  reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.

Page 4 of 6 Well: UTE TRIBAL 21-02B 1/13/2014

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water
  is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM
  Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the <u>top of cement</u> and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well by CD (compact disc).
   This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 5 of 6 Well: UTE TRIBAL 21-02B 1/13/2014

### **OPERATING REQUIREMENT REMINDERS:**

 All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- Should the well be successfully completed for production, the BLM Vernal Field office must be
  notified when it is placed in a producing status. Such notification will be by written
  communication and must be received in this office by not later than the fifth business day
  following the date on which the well is placed on production. The notification shall provide, as a
  minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - o Unit agreement and/or participating area name and number, if applicable.
  - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will
  be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be
  reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major
  Events" will be reported in writing within 15 days. "Minor Events" will be reported on the
  Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

Page 6 of 6 Well: UTE TRIBAL 21-02B 1/13/2014

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field
  Office Petroleum Engineers will be provided with a date and time for the initial meter calibration
  and all future meter proving schedules. A copy of the meter calibration reports shall be
  submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API
  standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All
  measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted
  to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs
  first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be
  adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively
  sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
  equipment shall be removed from a well to be placed in a suspended status without prior
  approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
  days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
  before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Sundry Number: 51880 API Well Number: 43013522080000

STATE OF UTAH		FORM 9		
DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING			5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H623516	
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE		
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	posals to drill new wells, significar reenter plugged wells, or to drill ho n for such proposals.	ntly deep rizontal l	en existing wells below aterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME: ANTELOPE CREEK
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: Ute Tribal 21-02B
2. NAME OF OPERATOR: PETROGLYPH OPERATING C	:0			9. API NUMBER: 43013522080000
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste	500 , Boise, ID, 83703		NE NUMBER: 685-7685 Ext	9. FIELD and POOL or WILDCAT: ANTELOPE CREEK
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0581 FNL 3248 FWL				COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 21 Township: 05.0S Range: 03.0W Meridian: U			U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDI	CATE N	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
	ACIDIZE		LTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS		HANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS		OMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	<b>√</b> F	RACTURE TREAT	NEW CONSTRUCTION
4/19/2014	OPERATOR CHANGE	P	LUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	□ R	ECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	□s	IDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	□ v	ENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	□s	I TA STATUS EXTENSION	APD EXTENSION
· I	WILDCAT WELL DETERMINATION	П	THER	OTHER:
42 DESCRIBE BRODOSED OR	COMPLETED OPERATIONS. Clearly sh	ه د الوسم	rinent deteile including detec	<u> </u>
	Please see attached	-		Accepted by the Utah Division of Oil, Gas and Mining FOR BECORD ONLY
NAME (PLEASE PRINT)  Rodrigo Jurado  PHONE NUMBER  435 722-5302  Regulatory & Co		TITLE Regulatory & Compliance S	рс	
SIGNATURE N/A			<b>DATE</b> 6/4/2014	

RECEIVED: Jun. 04, 2014

Sundry Number: 51880 API Well Number: 43013522080000

STATE OF UTAH

FORM 9

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER:			
	14-20-H62-3516			
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  Ute Indian Tribe			
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals	7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650			
1. TYPE OF WELL OIL WELL GAS WELL OTHER	8. WELL NAME and NUMBER: Ute Tribal 21-02B			
2. NAME OF OPERATOR: Petroglyph Operating Company Inc.	9. API NUMBER: 4301352208			
3. ADDRESS OF OPERATOR: P.O. Box 607   Roosevelt   STATE   UT   219 84066   (435) 722-2531	10. FIELD AND POOL, OR WILDCAT: Antelope Creek			
4. LOCATION OF WELL				
FOOTAGES AT SURFACE: 581' FNL 3248' FWL	COUNTY: Duchesne			
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 21 5S 3W U	STATE: UTAH			
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA			
TYPE OF SUBMISSION TYPE OF ACTION				
NOTICE OF INTENT	REPERFORATE CURRENT FORMATION			
(Submit in Duplicate)  ALTER CASING  FRACTURE TREAT	SIDETRACK TO REPAIR WELL			
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON			
CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TUBING REPAIR			
CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE			
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK (Submit Original Form Only)	WATER DISPOSAL			
Date of work completion:  CHANGE WELL STATUS  PRODUCTION (START/RESUME)	WATER SHUT-OFF			
4/19/2014 COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE	OTHER:			
CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION				
DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  On 3/20/2014 Petroglyph Operating ran GR/CBL and found ETOC @ 240', then on 4/8/2014 perforated the following: 5992-94, 5974-78, 5915-28, 5720-23, 5698-5704, 5687-90, 5674-83, 5649-51, 5635-40, 5594-95, 5588-90, 5578-81, 5471-75, 5454-57, 5335-40, 5326-29, 5134-38, 5057-59, 5050-52, 5037-39, 4861-70, 4630-36, 4612-16, 4588-92 & 4531-35. We isolated and fracture treated the following intervals: 5,915'-5,994': 710 Bbls of fluid containing 49,800#'s of sand, 5,578'-5,723': 1,027 Bbls of fluid containing 90,500#'s of sand, 5,326'-5,475': 538 Bbls of fluid containing 40,100#'s of sand, 5,037'-5,138': 520 Bbls of fluid containing 21,085#'s of sand, 4,861'-4,870': 510 Bbls of fluid containing 30,200#'s of sand, 4,531'-4,636': 688 Bbls of fluid containing 52,000#'s of sand. Isolation plugs used were Halliburton 8K Composite Plugs, fluid used was Dyna 22 18# gelled fluid, sand used was 20/40 Mesh Premium White Sand and plugs used were Titan 3-1/8", containing 22.7 gram charges, 0.42" EHD, 23.54" TTP @ 4 SPF @ 120* Phased. All plugs were drilled out and cleaned out to PBTD, 6,173'. The well was swabbed until a good oil cut was see, then ran a pump on 4/19/2014 and put to pump.				
NAME (PLEASE PRINT) Rodrigo Jurado TITLE Regulatory Comp	oliance Specialist			
SIGNATURE				

(5/2000)

(This space for State use only)

STATE OF UTAH		FORM 9			
DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H623516			
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE			
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		7.UNIT or CA AGREEMENT NAME: ANTELOPE CREEK			
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: Ute Tribal 21-02B		
2. NAME OF OPERATOR: PETROGLYPH OPERATING C	co		9. API NUMBER: 43013522080000		
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste		<b>PHONE NUMBER:</b> 208 685-7685 Ext	9. FIELD and POOL or WILDCAT: ANTELOPE CREEK		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0552 FNL 3285 FWL			COUNTY: DUCHESNE		
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 21 Township: 05.0S Range: 03.0W Meridian: U		ian: U	STATE: UTAH		
11. CHEC	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
	ACIDIZE	ALTER CASING	CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME		
Approximate date work will start.	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN [	FRACTURE TREAT	NEW CONSTRUCTION		
1/28/2014	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK		
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON		
☐ DRILLING REPORT	<u></u>		WATER DISPOSAL		
	L TUBING REPAIR L	☐ VENT OR FLARE ☐			
Report Date:	L WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION		
	WILDCAT WELL DETERMINATION	OTHER	OTHER: Revised WH Spacing		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  The well head spacing on the pad referenced above was revised to accommodate the footprint of the available drill rig, Capstar 334. The well's revised location is 552' FNL, 3285' FWL, NW/NE Section 21,  Township 5 South, Range 3 West, Duchesne County Utah. Please see the attached revised plats.  By:					
NAME (PLEASE PRINT) Rodrigo Jurado	<b>PHONE NUMBE</b> 435 722-5302	R TITLE Regulatory & Compliance S	pc		
SIGNATURE	100 122 0002	DATE	•		
N/A		6/26/2014			

Sundry Number: 52632 API Well Number: 43013522080000

# PETROGLYPH OPERATING CO., INC. UTE TRIBAL #21-02P & #21-02B ON EXISTING #21-02

LOCATED IN DUCHESNE COUNTY, UTAH **SECTION 21, T5S, R3W, U.S.B.&M.** 

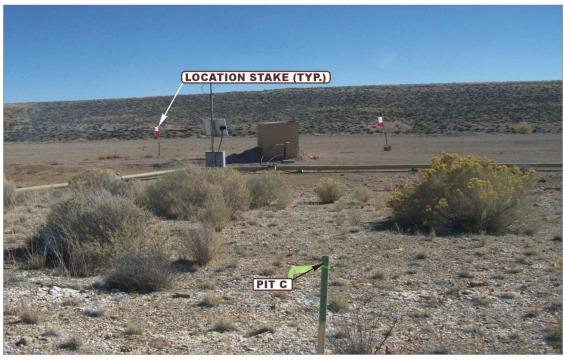


PHOTO: VIEW FROM PIT C TO LOCATION STAKES

**CAMERA ANGLE: SOUTHEASTERLY** 



PHOTO: VIEW OF EXISTING ACCESS

**CAMERA ANGLE: NORTHEASTERLY** 





LATITUDE =  $40^{\circ}02'16.77"$  (40.037992)

LONGITUDE =  $110^{\circ}13'30.18"$  (110.225050)

COLD

Set

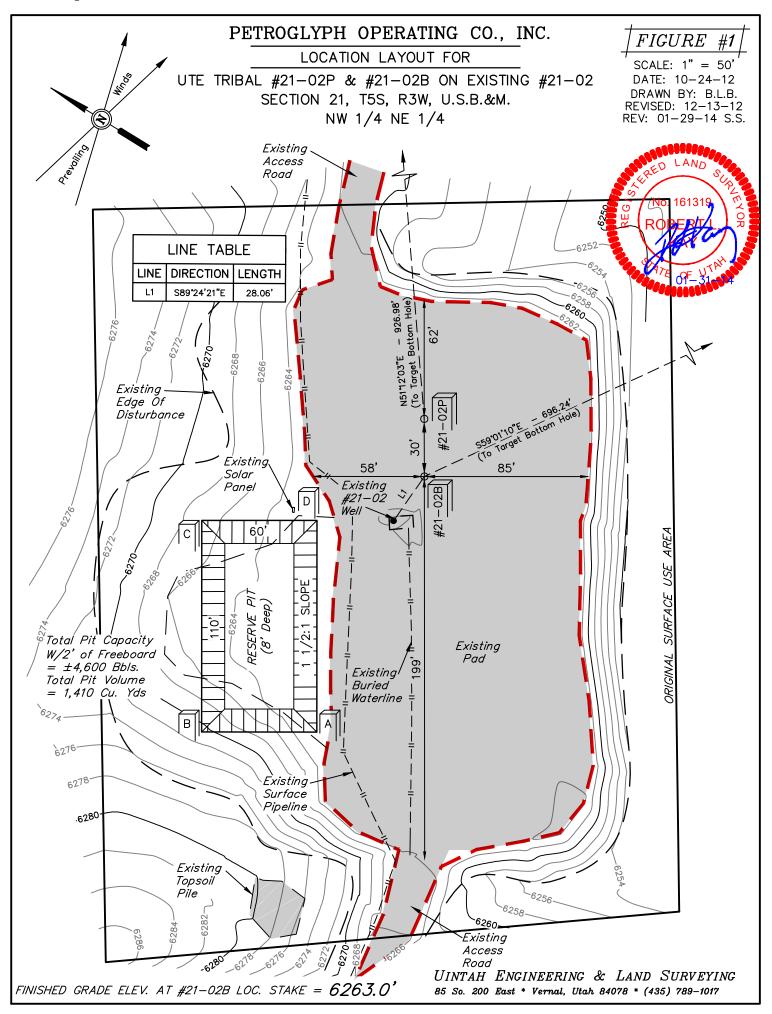
= SECTION CORNERS LOCATED.

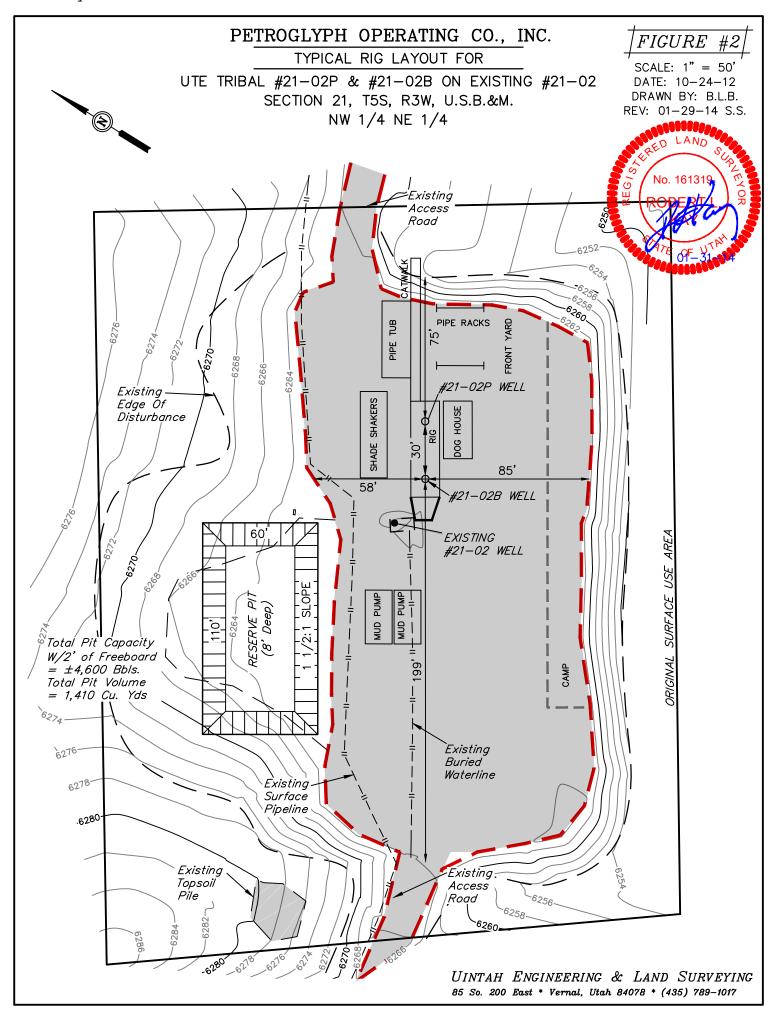
LATITUDE =  $40^{\circ}02'12.15''$  (40.036708)

LONGITUDE =  $110^{\circ}13'22.58''$  (110.222939)

PETROGLYPH OPERATING CO., INC.

Sundry Number: 52632 API Well Number: 43013522080000



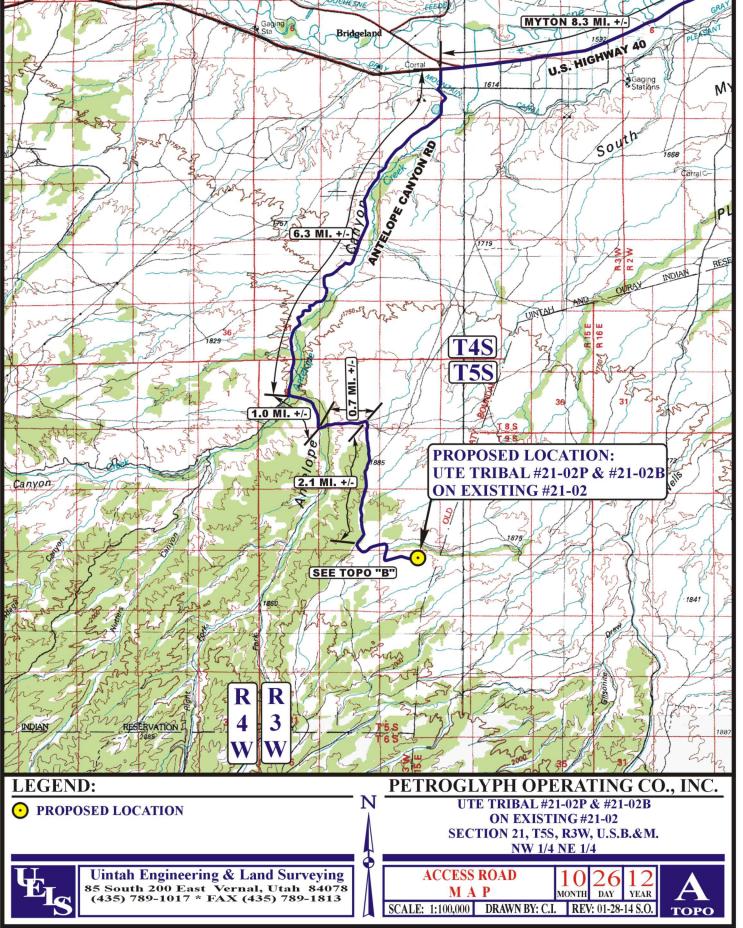


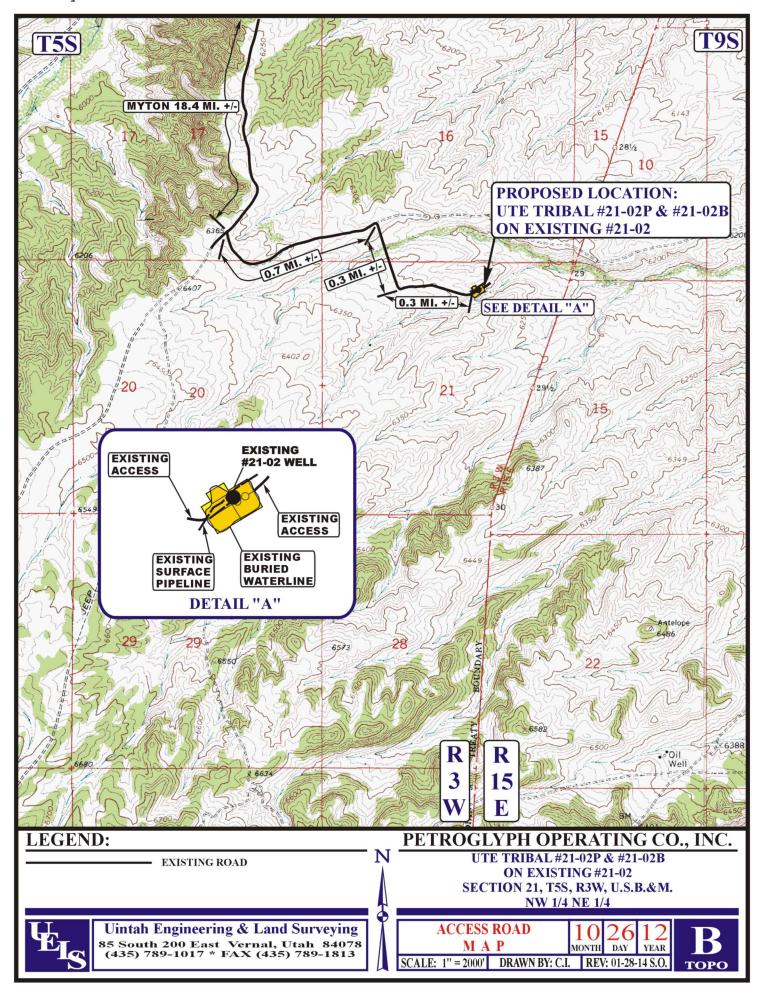
## PETROGLYPH OPERATING CO., INC. UTE TRIBAL #21-02P & #21-02B ON EXISTING #21-02 SECTIONS 21, T5S, R3W, U.S.B.&M.

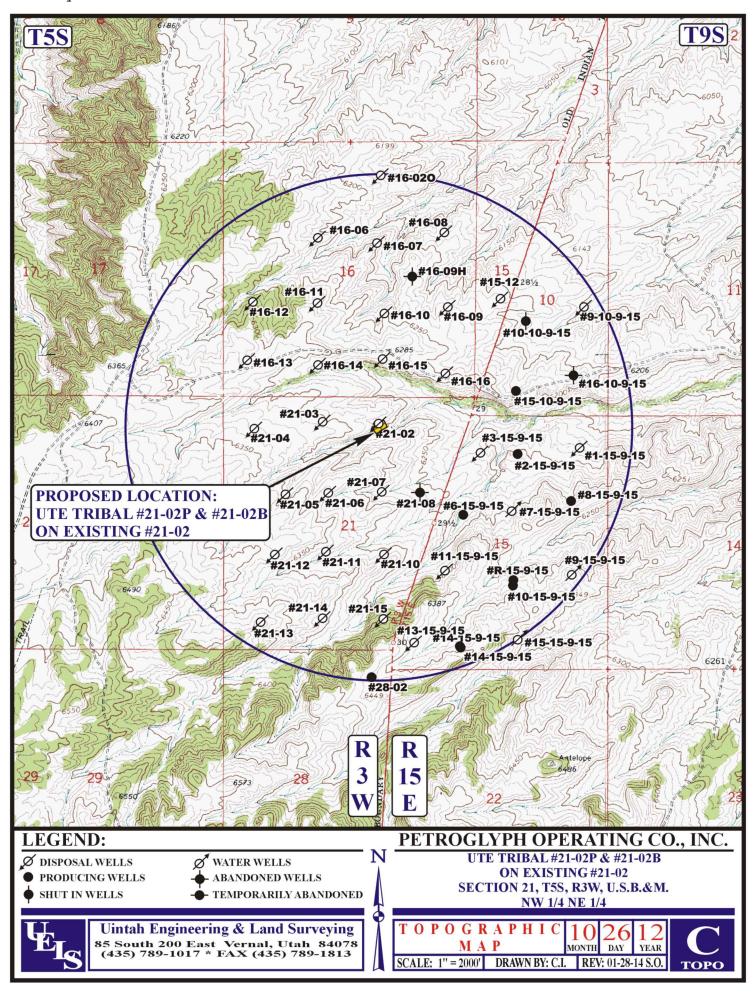
PROCEED IN A SOUTHWESTERLY DIRECTION FROM MYTON, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 8.3 MILES TO THE JUNCTION OF THIS ROAD AND ANTELOPE CANYON ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY. THEN SOUTHWESTERLY DIRECTION ALONG ANTELOPE CANYON ROAD APPROXIMATELY 6.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 1.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 2.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE EXISTING UTE TRIBAL #21-030 & #21-03N PAD AND AN EXISTING ROAD TO THE SOUTHEAST; PROCEED IN AN SOUTHEASTERLY, THE NORTHEASTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM MYTON, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 19.7 MILES.

Sundry Number: 52632 API Well Number: 43013522080000 MYTON 8.3 MI. +/-Bridgelan U.S. HIGHWAY 40 W. South Corral C-6.3 MI. +/-1719 RESE INDIAN 1.0 MI. +/-PROPOSED LOCATION: UTE TRIBAL #21-02P & #21-02B 2.1 MI. +/-Canyon ON EXISTING #21-02 SEE TOPO "B" RESERVATION I **LEGEND:** PETROGLYPH OPERATING CO., INC. UTE TRIBAL #21-02P & #21-02B PROPOSED LOCATION ON EXISTING #21-02







				ST RTMEN ION O		ATURA	L RESC						(hi	ighlight .EASE DI	char ESIGN		FORM 8 SERIAL NUMBER:
WELI	L CO	MPLE.	TION	OR F	RECC	MPL	ETIC	ON RI	EPOF	RT ANI	D LO	G	1			Tribe	RIBE NAME
1a. TYPE OF WELL	ganovalnokauseettauseenegsvon	(	VELL V	<u></u>	GAS C		DRY		ОТН	IER			1 1			REEMENT NA 62-4650	ME
b. TYPE OF WORK		r	SEED. C	<b>-</b> 1	9E_ [**	internity	DIEE	<b></b>					8. V	WELL NA	ME an	d NUMBER:	
NEW WELL 2	HORIZ LATS. [	<u> </u>	DEEP- [		RE- ENTRY		DIFF. RESVR.	<u> </u>	OTH	IER				Ute I		I 21-02B	
Petroglyph		ating Co	ompan	y, Inc.		5-4435			anners sommertidan			····		4301	3522		
P.O. Box 60			CITY RO	oseve	lt	STATE	UT	ZiP 840	066	1	NUMBEI 35) 72:	<sup>₹</sup> 2-2531				DL, OR WILD Creek	CAT
4. LOCATION OF W AT SURFACE:			35' FW	L L		***************************************							1	QTR/QTI MERIDIA WNE			SHIP, RANGE,
AT TOP PRODUC	CING INTE	RVAL REPO	RTED BE	Low: 1	231' F	NL, 4	044' F	WL Lo	ot 1 Se	c. 21 T5	5S R3\	Ν					
AT TOTAL DEPT					<b>,</b>			R3W					1	COUNTY Duche	sne		13. STATE UTAH
14. DATE SPUDDED 1/28/2014	): 	15. DATE 3/10/		CHED:	16. DAT 4/19	е сомрь <mark>9/201</mark> 4		,	ABANDON	ED 🔲	READY	TO PRODU	CE 🗾			ons (df. rki 6' RKB	B, RT, GL):
18. TOTAL DEPTH:	MD 6.	,231 ,065		19. PLUG	BACK T.E		6,173 6,007		20. IF	MULTIPLE C	OMPLETI	ONS, HOW	MANY? *	21. DE P	PTH B LUG S		
ACTR, SDD								g		23. WAS WEL WAS DST DIRECTIO	RUN?			<b>V</b>	YES YES YES	Sut	omit analysis) omit report) omit copy)
24. CASING AND LI	NER RECC	RD (Repor	t all string	ıs set in w	ell)				·				<b>.</b>		<del></del>		
HOLE SIZE	SIZE/G	RADE	WEIGH	Γ (#/ft.)	TOP	(MD)	воттс	M (MD)		CEMENTER EPTH		IT TYPE & F SACKS		IRRY 1E (BBL)	CE	MENT TOP *	* AMOUNT PULLED
26	16	J-55	7		(			'3							_	0	Conductor
12.25	8.625	J-55	2.		(			13	<u> </u>		G	350	<del></del>	72	╀	0	001
7.875	5.5	J-55	15	.5	(	)	6,2	213			G	1,04	2	78	-	240'	CBL
															‡		
or Tubilo proof									<u></u>		<u></u>				<u></u>		
25. TUBING RECOR	<del></del>	H SET (MD)	PACE	KER SET (I	MD)	SIZE		DEPTH	i SET (MD	) PACKE	R SET (M	D)	SIZE	T	DEPTI	H SET (MD)	PACKER SET (MD)
2.875	6	,032				*************											
26. PRODUCING IN	TERVALS									27. PERFO	RATION	RECORD					
FORMATION		TOF	<sup>2</sup> (MD)	BOTTO	M (MD)	<u> </u>	(TVD)	<b></b>	M (TVD)	INTERVA	AL (Top/Bo	ot - MD)	SIZE	NO. HO			RATION STATUS
(A) Green Riv	⁄er	4,	531	5,9	994	4,0	376	5,8	328	4,531		5,994	0.42	42	8	Open 🗸	Squeezed
(B)																Open	Squeezed
(C)																Open	Squeezed
(D)																Open	Squeezed
28. ACID, FRACTUR	RE, TREAT	MENT, CEM	IENT SQU	EEZE, ET	Э.							,					
DEPTH I	NTERVAL	acedonica de la 1946 il menestrato	T						AM	OUNT AND T	YPE OF I	MATERIAL			************	***************************************	
4,531'-5,994	ı	<del>/</del>	3,99	33 Bbls	Dyna	22 LF	2 18#	Gelled	l Fluid	containi	ng 28	3,685#'	s of 20	)/40 N	1est	Sand.	
was a land of the same of the			1	******				<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>				· · · · · · · · · · · · · · · · · · ·	····			***************************************	
			1					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						***************************************	-	, ini, mari alia, mani ani ani ani ani ani	
29. ENCLOSED ATT	rachment.	rs:							.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			***************************************		ayangili giri katila ijiyi paiyyin		30. WE	LL STATUS:
paramy paramy		HANICAL L		) CEMENT	VERIFICA	ATION	housed	GEOLOGI CORE AN	IC REPOR	- Remarkable	DST REP	ort <b>V</b> UDOG	DIRECT		SURV	EY	POW

DATE FIRST PR		TEST DA	(TE:		HOURS TESTE	TERVAL A (As sho	TEST PRODUCTION	OIL BBL:	GAS ~ MCF:	WATER -	- BBI :
4/22/2014		1	2014			24	RATES: →	86	44	4	
сноке size: 37/64	TBG. PRES	s. CSG. PF		API GRAVITY 39.90	BTU - GAS	GAS/OIL RATIO 512	24 HR PRODUCTION RATES: →	OIL BBL:	GAS - MCF: 44	WATER 4	
					IN	TERVAL B (As sho	wn in item #26)				***************************************
DATE FIRST PF	RODUCED:	TEST DA	TE:		HOURS TESTE	D:	TEST PRODUCTION RATES: →	OIL – BBL	GAS - MCF:	WATER -	– BBL:
CHOKE SIZE:	TBG. PRES	S. CSG. PR	ESS	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER -	- BBL:
		I			IN	TERVAL C (As shor	wn in item #26)				
DATE FIRST PR	ODUCED:	TEST DA	JE:	W4W446000000000000000000000000000000000	HOURS TESTE	ED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER -	- BBL:
CHOKE SIZE:	TBG. PRES	S. CSG. PR	ESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS MCF:	WATER -	- BBL:
					IN	TERVAL D (As sho	wn in item #26)			······································	
DATE FIRST PR	ODUCED:	TEST DA	TE:		HOURS TESTE	D:	TEST PRODUCTION RATES: →	OIL BBL:	GAS MCF:	WATER -	- BBL:
CHOKE SIZE:	TBG. PRES	S. CSG. PR	ESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER -	- BBL:
32. DISPOSITION		iold, Used for I	uel, Vent	ted, Etc.)			<u> </u>				
33. SUMMARY		ZONES (Includ	e Aquifer	rs):			T3	4. FORMATION	(Log) MARKERS:		
	int zones of po	rosity and cont	ents there	of: Cored inte		m tests, including de		4. ( O.I.III/11/07	(Log) invitation		
	Т	Тор	Botto								Γ

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Trona Mahogany Garden Gulch B Marker X Marker Y Marker Douglas Creek B Lime Castle Peak	2,882 3,026 3,766 4,178 4,675 4,712 4,822 5,206 5,774
				Basal Carbonate	6,180

35. ADDITIONAL REMARKS (Include plugging procedure)

Sfc loc revised, sundry and plot map submitted. Frac and Perf info is condensed, see NOI and Sub Rpt sundry for detailed record

36. I hereby certify that the foregoing and attached information is complete and correct as determined fro	om all avail	able records.
NAME (PLEASE PRINT) Rodrigo Jurado	TITLE	Regulatory Compliance Specialist
SIGNATURE	DATE	7/9/2014

This report must be submitted within 30 days of

- completing or plugging a new well
- · drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth

PROD. METHOD:
Rod Pump
INTERVAL STATUS
Open

PROD. METHOD

INTERVAL STATUS

PROD. METHOD

INTERVAL STATUS

PROD. METHOD

INTERVAL STATUS:

drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\*\* ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

<sup>\*</sup> ITEM 20: Show the number of completions if production is measured separately from two or more formations.

State/Country: Utah/USA	Declination: 11.03	Grid: True	File name: C:\WINSERVE\UT141411.SVY	Date/Time: 10-Mar-14 / 10:54	Curve Name: Ute Tribal_21-02B_Actual	
Job Number: UT141411	Company: Petroglyph	Lease/Well: Ute Tribal_21-02B	Location: Sec. 21, T5S, R3W	Rig Name: Capstar #334	RKB: 6276'	G.L. or M.S.L.: GL_6263'

## Payzone Directional Services LLC

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 132.00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

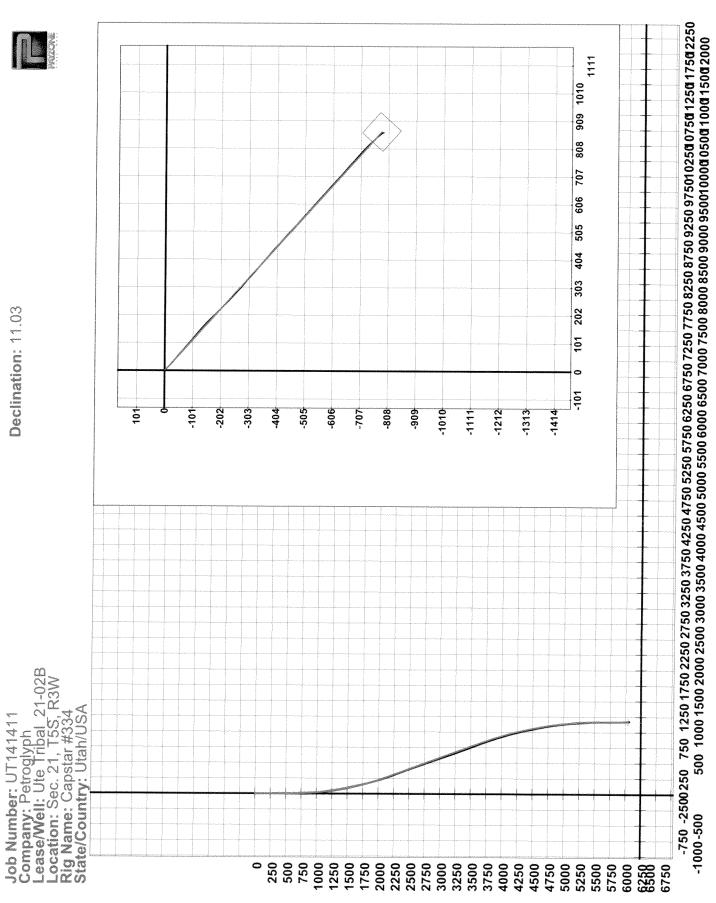
Dogleg Severity Deg/100	.00 .07 .93 1.10	1.43 .99 1.72 1.33
S U R E Direction Deg	.00 137.00 130.86 127.63 130.13	131.73 132.52 132.45 132.19
CLOSURE Distance Direction FT Deg	.00 1.98 3.22 5.79 11.41	17.66 25.67 35.57 47.73 61.49
Vertical Section FT	.00 1.97 3.21 5.77 11.40	17.66 25.66 35.57 47.73 61.49
E-W FT	.00 1.35 2.43 4.58 8.72	13.18 18.92 26.24 35.37 45.63
N-S FT	.00 -1.44 -2.10 -3.53 -7.35	-11.75 -17.35 -24.00 -32.05 -41.22
True Vertical Depth	.00 566.00 657.99 750.95 872.82	963.60 1054.24 1144.70 1235.89 1325.84
Drift Direction Deg	.00 137.00 116.10 128.10	134.00 134.50 130.50 132.20 131.40
inci Angle Deg	.00 .40 1.20 2.00 3.30	4.60 5.50 7.00 8.20 9.20
Measured Depth FT	.00 566.00 658.00 751.00 873.00	964.00 1055.00 1146.00 1238.00

Dogleg Severity Deg/100	1.36 1.22 1.22 .69 .65	2.72 1.36 2.44 1.12	.41 1.01 58 .93	.70 .46 .99 .76	.37 .98 .33 .61	.69 .121 .129 .74	.69 .22 1.62 2.14
CLOSURE Direction Deg	131.76 131.45 131.42 131.22	130.94 130.92 131.11 131.45	132.07 132.24 132.30 132.25	132.13 132.06 131.97 131.88	131.86 131.88 131.87 131.87	131.88 131.88 131.87 131.86	131.84 131.86 131.86
CLO: Distance FT	76.98 94.26 113.23 133.66 148.35	176.64 199.96 225.77 254.20 284.15	315.50 347.80 379.59 410.55	470.78 501.13 530.82 560.68	619.48 649.96 681.08 713.08 745.32	777.48 809.13 840.14 869.04 896.55	923.23 949.48 974.77 997.16
Vertical Section FT	76.98 94.25 113.22 133.65 148.34	176.61 199.92 225.75 254.18 284.15	315.49 347.79 379.59 410.55	470.78 501.13 530.82 560.68 590.23	619.48 649.96 681.08 713.07 745.31	777.48 809.13 840.14 869.03 896.55	923.23 949.47 974.77 997.16
E-W FT	57.42 70.64 84.91 100.31 111.59	133.43 151.09 170.12 190.54 211.79	234.19 257.50 280.78 303.92 326.78	349.16 372.05 394.67 417.43 439.68	461.37 483.91 507.08 531.00 554.98	578.86 602.47 625.66 647.29 667.93	687.79 707.17 726.03 742.83
N-S TT	-51.27 -62.40 -74.90 -88.34 -97.76	-115.75 -130.97 -148.44 -168.26 -189.44	-211.40 -233.79 -255.45 -276.02 -296.01	-315.79 -335.71 -354.96 -374.33 -393.77	-413.40 -433.91 -454.69 -475.93 -497.49	-519.03 -540.11 -560.70 -579.87 -598.06	-615.87 -633.57 -650.43 -665.23
True Vertical Depth	1415.51 1504.86 1593.85 1683.56 1745.85	1860.40 1948.36 2035.61 2123.10 2209.01	2294.43 2380.57 2465.83 2551.40 2638.24	2724.20 2809.99 2896.01 2983.02 3069.09	3155.26 3242.06 3327.57 3413.83 3498.93	3584.05 3669.37 3755.99 3842.27 3929.01	4016.01 4103.15 4191.60 4279.80
Drift Direction Deg	129.60 130.50 131.92 130.34 129.37	129.60 131.80 133.24 135.00 134.82	134.03 133.69 132.16 131.09	131.66 130.40 130.40 130.40 131.90	132.40 132.20 131.60 131.60	131.80 131.70 131.50 131.62 131.13	132.67 132.14 131.40 131.40
Incl Angle Deg	10.40 11.50 12.57 13.10	14.30 15.40 17.58 18.46 20.04	20.30 20.83 20.08 19.70 18.85	19.47 19.50 18.60 18.60	18.90 19.80 20.20 20.50 21.00	20.40 20.30 19.10 17.93	16.83 16.70 15.22 13.27
Measured Depth FT	1420.00 1511.00 1602.00 1694.00 1758.00	1876.00 1967.00 2058.00 2150.00 2241.00	2332.00 2424.00 2515.00 2606.00 2698.00	2789.00 2880.00 2971.00 3063.00 3154.00	3245.00 3337.00 3428.00 3520.00 3611.00	3702.00 3793.00 3885.00 3976.00 4067.00	4158.00 4249.00 4341.00 4432.00

## Page 2 Ute Tribal\_21-02B\_Actual File: C:\WINSERVE\UT141411.SVY

	i																		proces	
Dogleg Severity Deg/100	.46	5.5	144	4	1 00	1.22	1.55	1.29	1.02	•	.40	1.80	44.	12.	C	, z	25. 25.	36.		00:
CLOSURE e Direction Deg	131.82	131.81	131.81	131.84	131.89	131.93	131.96	132.00	132.05	0	132.08	132.13	132.18	132.19	20,000	122.20	132.22	132.33		132.39
C L O Distance FT	1018.03	1056.59	1074.37	1090.59	1105.20	1118.37	1129.44	1138.71	1146.12	4. 0.000	102.00	1157.64	1161.04	1165.09	1466 60	1168.27	1169 94	1171.55		1172.73
Vertical Section FT	1018.02	1056.58	1074.37	1090.59	1105.19	1118.37	1129.44	1138.71	1146.12	77	1.02.00	1157.64	1163.03	1165.09	7. 2. 2. 2. 2.	1168 27	1169 92	1171.53		1172.70
E-W FT	758.63 773.47	787.58	800.79	812.45	822.79	832.08	839.85	846.19	851.12	966 17	71.000	860.34	861.84	863.19	861.25	865 14	865.76	866.05		866.17
N-S TF	-678.87	-704.34	-716.25	-727.54	-737.89	-747.26	-755.18	-761.99	-767.58	770 60	776.50	-779.65	-781.60	-782.52	-783.62	-785 11	-786.90	-788.98		-790.59
True Vertical Depth	4369.40 4458.24	4547.26	4636.51	4727.06	4816.88	4907.92	4998.24	5090.77	5180.46	5071.03	5262.00	5453.01	5544 98	5635.96	5726 95	5818 93	5909.91	68.0009		6064.87
Drift Direction Deg	130.16	131.31	132.80	135.50	134.50	136.10	134.90	139.60	137.30	140.20	146 90	153.60	120.40	128.30	143.80	153.90	167.70	175.60		175.60
Incl Angle Deg	12.95 12.04	11.91	10.63	9.70	8.80	7.70	6.30	5.20	4.30	4 00	2.40	2.10	1.10	26.	26	1.20	1.20	1,45	Bit @TD	1.45
Measured Depth FT	4524.00 4615.00	4706.00	4797.00	4889.00	4980.00	5072.00	5163.00	5256.00	5346.00	5437.00	5528 00	5619.00	5711.00	5802.00	5893.00	5985.00	00.9209	6167.00	Projection to Bit @TD	6231.00





STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

FORM 7

## REPORT OF WATER ENCOUNTERED DURING DRILLING

Well name and	d number: <u>Ute</u>	Tribal 21-0	2B			
API number: _	4301352208					
Well Location:	QQ NWNE Sec	ction 21	_Township <u>5S</u> Rang	je <u>3W</u>	_ Coun	ty Duchesne
Well operator:	Petroglyph Op	erating Co	mpany, Inc.			
Address:	P.O. Box 607			***************************************		
	city Roosevelt		state <sup>UT</sup> zip 84066		Pho	ne: (435) 722-2531
Drilling contract	otor: ProPetro S	Services		~~~		
Address:	1422 East 150	00 South				
	city Vernal		state UT zip 84078		Pho	ne: <u>(435)</u> 789-1735
Water encoun	tered (attach ad	ditional pa	ges as needed):			
ſ	DEP'	TH	VOLUM	E		QUALITY
	FROM TO (FLOW RATE OR					(FRESH OR SALTY)
	0	0			No Water Encountered	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
		<u></u>				
		***************************************		**************************************		
l					L	
Formation tops	· 1		2			ব্
(Top to Bottom			5	g gi (gandag gaya) yang jag gilandi menjada yana 120 juli salah gilandi da		6
	sang P					
	10					
If an analysis l	nas been made	of the wate	er encountered, please a	ttach a	copy of	the report to this form.
			plete to the best of my knowl			
NAME (PLEASE PRII	Rodrigo Jura	do		TITLE		atory Compliance Specialist
SIGNATURE	1.1.1			DATE	2/7/20	)14